

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P622584

Luminaire Tested: **PRV-M-PA6A-730-U-T2R-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-7)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-PA6A-730-U-T2R-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II ROADWAY OPTICS WITH HOUSE
SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29939 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G4

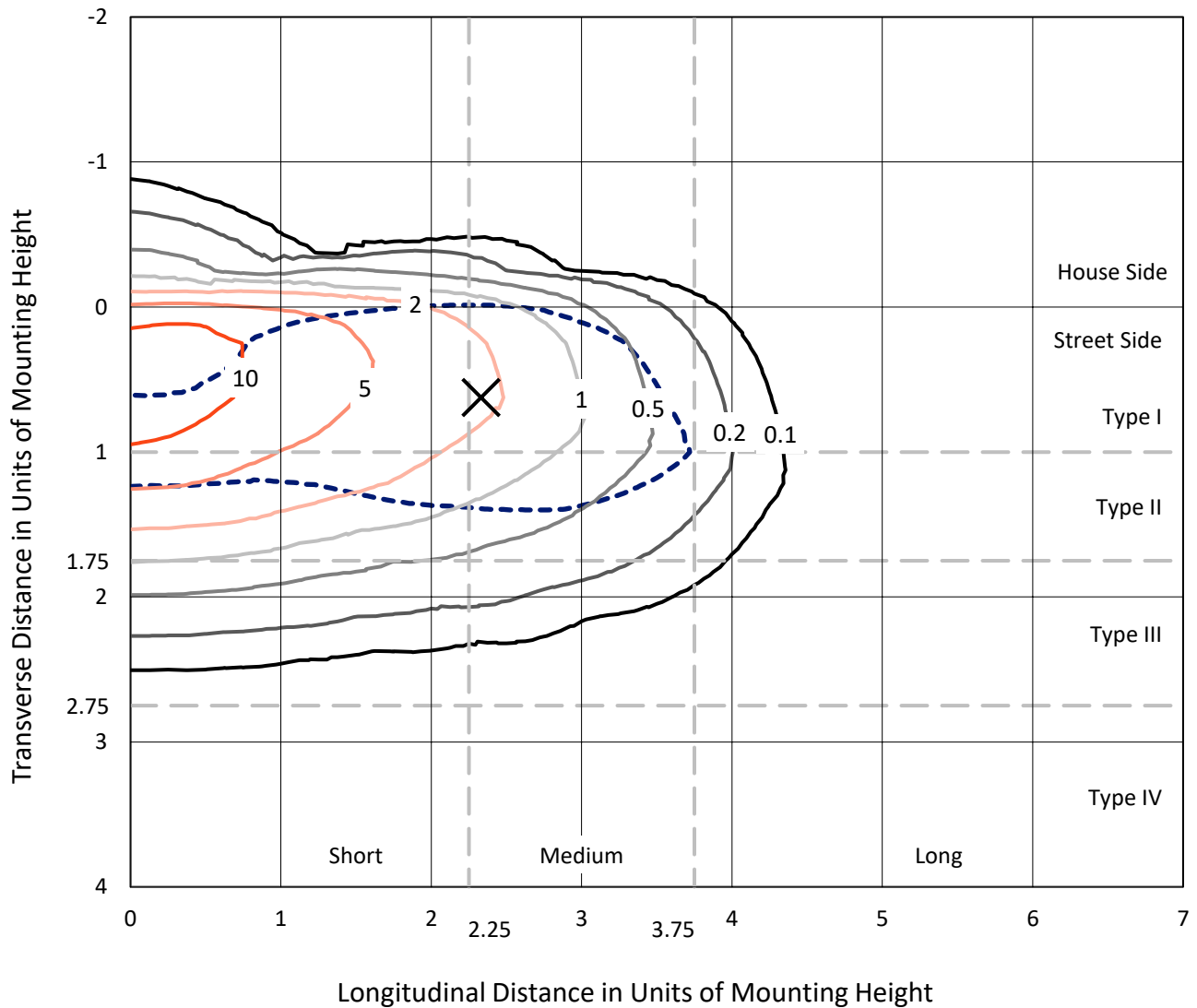
Input Watts (W): 273.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

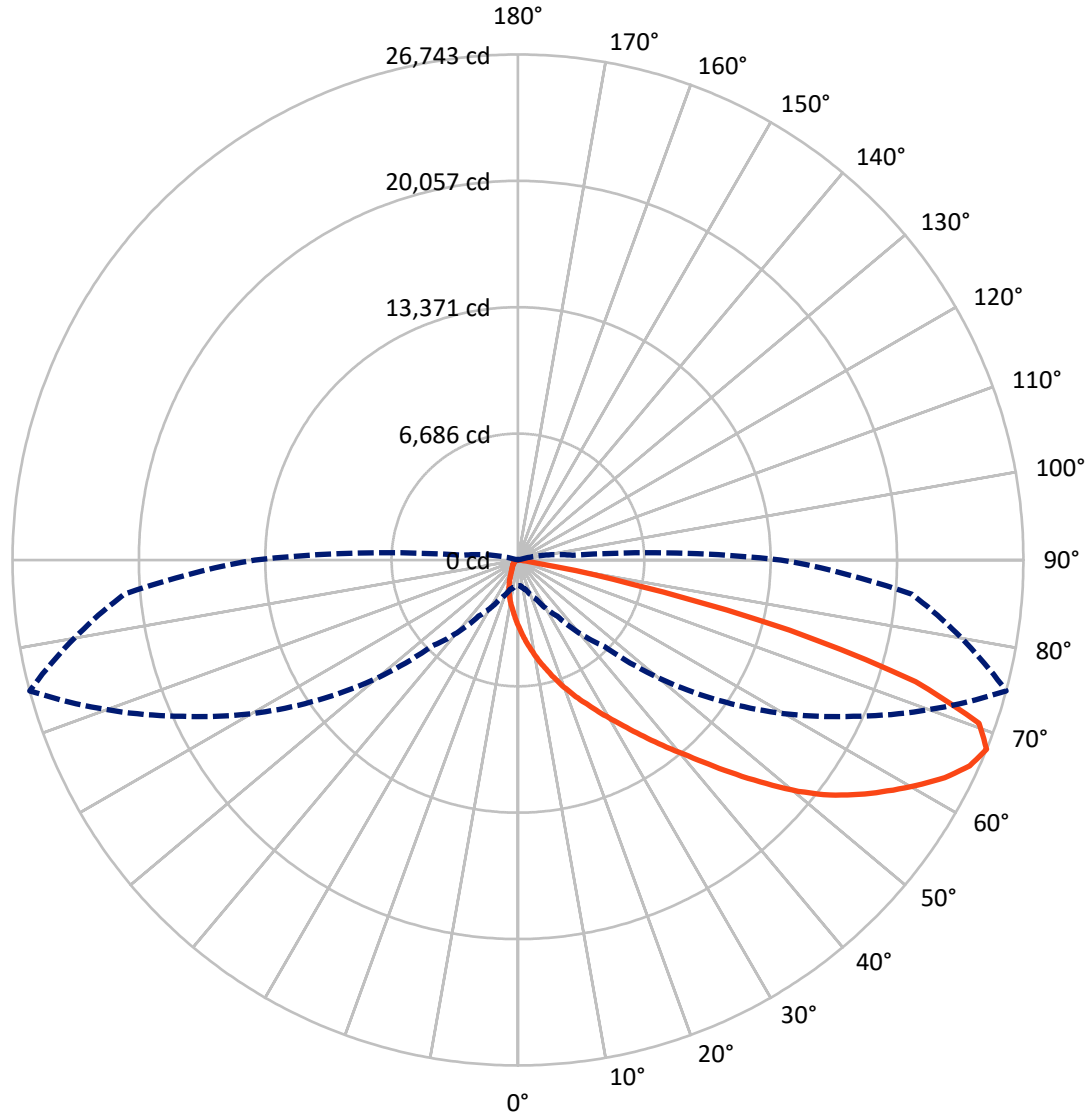
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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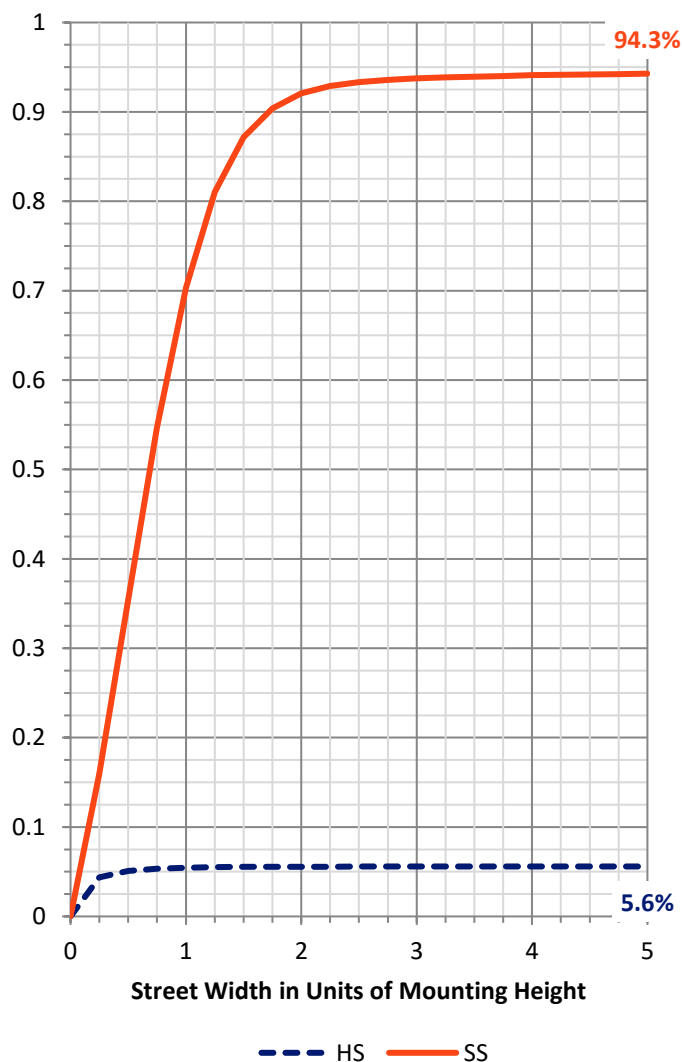
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1683.6 | 0.0 | 1683.6 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 28255.4 | 0.0 | 28255.4 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 29939.0 | 0.0 | 29939.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 342.5 | 1.1 |
| 10°-20° | 1155.2 | 3.9 |
| 20°-30° | 2297.6 | 7.7 |
| 30°-40° | 4165.6 | 13.9 |
| 40°-50° | 6236.6 | 20.8 |
| 50°-60° | 7107.6 | 23.7 |
| 60°-70° | 6037.7 | 20.2 |
| 70°-80° | 2491.0 | 8.3 |
| 80°-90° | 105.1 | 0.4 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 29939.0 | 100.0 |
| 0°-180° | 29939.0 | 100.0 |

Coefficient of Utilization

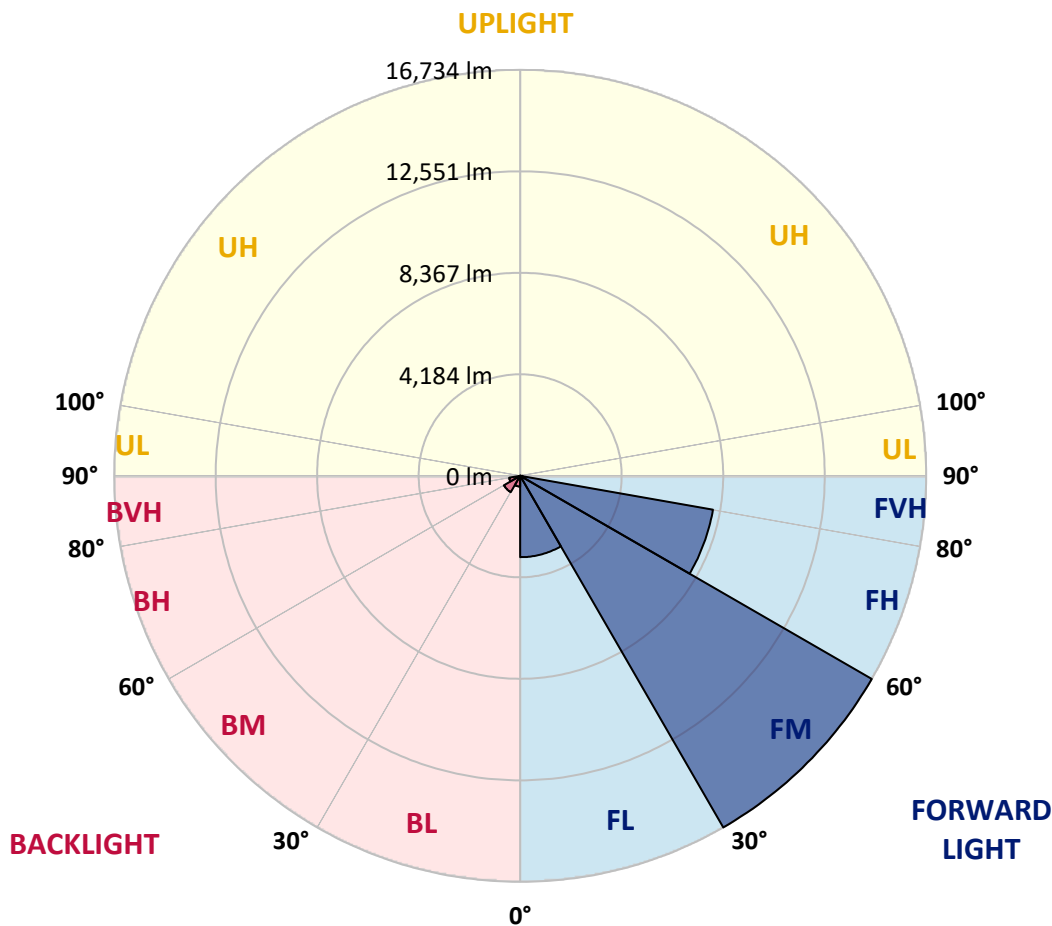


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3353.8 | 11.2 | | | |
| FM (30°-60°) | 16734.0 | 55.9 | | | |
| FH (60°-80°) | 8067.7 | 26.9 | | | G4/12000 |
| FVH (80°-90°) | 99.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 441.6 | 1.5 | B1/500 | | |
| BM (30°-60°) | 775.7 | 2.6 | B1/1000 | | |
| BH (60°-80°) | 461.1 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 |
| 2.5° | 4839.5 | 4781.2 | 4824.9 | 4773.9 | 4651.9 | 4499.8 | 4329.5 | 4114.6 | 3878.7 | 3642.8 | 3523.5 |
| 5° | 5842.2 | 5722.9 | 5731.1 | 5666.4 | 5529.8 | 5325.8 | 5075.4 | 4711.1 | 4290.3 | 3818.6 | 3574.5 |
| 7.5° | 6371.3 | 6269.3 | 6278.4 | 6232.0 | 6135.4 | 5965.1 | 5717.4 | 5285.7 | 4725.7 | 4037.2 | 3665.6 |
| 10° | 6785.7 | 6721.9 | 6742.0 | 6714.6 | 6644.5 | 6507.9 | 6289.3 | 5854.0 | 5186.5 | 4299.4 | 3792.2 |
| 12.5° | 7210.1 | 7141.8 | 7180.0 | 7169.1 | 7126.3 | 7030.7 | 6810.3 | 6414.1 | 5664.6 | 4588.1 | 3935.2 |
| 15° | 7462.3 | 7377.6 | 7456.9 | 7537.0 | 7588.9 | 7555.2 | 7388.6 | 6975.1 | 6180.1 | 4894.1 | 4087.3 |
| 17.5° | 7579.8 | 7509.7 | 7619.9 | 7757.4 | 7935.0 | 8030.6 | 7921.3 | 7564.3 | 6722.8 | 5232.0 | 4267.6 |
| 20° | 7850.3 | 7786.5 | 7886.7 | 8031.5 | 8223.7 | 8421.3 | 8450.5 | 8171.8 | 7280.2 | 5596.3 | 4462.5 |
| 22.5° | 8479.6 | 8406.7 | 8450.5 | 8476.0 | 8606.2 | 8793.8 | 8921.3 | 8788.3 | 7854.8 | 5981.5 | 4668.3 |
| 25° | 9568.8 | 9464.1 | 9411.2 | 9230.9 | 9218.2 | 9272.8 | 9353.9 | 9409.4 | 8435.0 | 6380.4 | 4871.4 |
| 27.5° | 11055.1 | 10917.6 | 10732.7 | 10283.7 | 10057.8 | 9928.5 | 9837.5 | 10031.4 | 9089.8 | 6765.6 | 5084.5 |
| 30° | 12602.4 | 12429.3 | 12200.7 | 11658.0 | 11127.9 | 10785.5 | 10448.5 | 10668.9 | 9782.8 | 7224.6 | 5313.1 |
| 32.5° | 13935.6 | 13735.3 | 13434.7 | 12882.9 | 12327.3 | 11798.2 | 11227.2 | 11312.8 | 10561.5 | 7734.6 | 5576.3 |
| 35° | 14993.9 | 14751.6 | 14505.7 | 13958.4 | 13460.2 | 12898.3 | 12161.6 | 11993.1 | 11470.4 | 8313.8 | 5904.1 |
| 37.5° | 15745.2 | 15487.5 | 15214.3 | 14738.9 | 14385.5 | 14007.6 | 13269.9 | 12795.4 | 12444.8 | 8991.4 | 6299.4 |
| 40° | 16194.2 | 15921.9 | 15697.9 | 15355.4 | 15100.4 | 14993.0 | 14497.5 | 13737.1 | 13494.9 | 9781.9 | 6793.9 |
| 42.5° | 16368.1 | 16104.0 | 15945.6 | 15696.9 | 15593.1 | 15752.5 | 15695.1 | 14918.3 | 14757.1 | 10729.9 | 7386.7 |
| 45° | 16250.7 | 16008.4 | 15913.7 | 15798.9 | 15851.8 | 16288.0 | 16828.0 | 16213.3 | 16176.0 | 11794.6 | 8073.4 |
| 47.5° | 15667.8 | 15476.6 | 15541.2 | 15632.3 | 15850.9 | 16591.3 | 17747.9 | 17600.3 | 17669.5 | 13013.1 | 8861.2 |
| 50° | 14391.0 | 14283.5 | 14578.6 | 15044.9 | 15558.5 | 16665.0 | 18459.1 | 18917.2 | 19239.6 | 14300.8 | 9726.4 |
| 52.5° | 11848.3 | 11918.4 | 12874.7 | 13875.5 | 14870.9 | 16469.2 | 18850.7 | 20064.7 | 20671.2 | 15471.1 | 10526.0 |
| 55° | 9094.3 | 9058.8 | 10275.5 | 12119.7 | 13685.2 | 15893.7 | 18949.1 | 20757.7 | 21904.3 | 16588.5 | 11267.3 |
| 57.5° | 7035.2 | 7006.1 | 7727.3 | 9771.9 | 11869.2 | 14836.3 | 18808.8 | 21185.8 | 23060.9 | 17655.9 | 12017.7 |
| 60° | 5410.5 | 5393.2 | 5937.8 | 7292.0 | 9604.3 | 13306.3 | 18288.8 | 21391.6 | 24230.3 | 18817.0 | 12781.8 |
| 62.5° | 3882.3 | 3905.1 | 4371.4 | 5418.7 | 7455.0 | 11159.8 | 17230.6 | 21263.2 | 25355.8 | 19847.0 | 13487.6 |
| 65° | 2409.7 | 2435.2 | 2833.2 | 3774.9 | 5368.6 | 8702.7 | 15447.4 | 20708.6 | 26262.1 | 20609.3 | 13988.5 |
| 67.5° | 1357.0 | 1369.7 | 1624.7 | 2288.6 | 3632.8 | 6446.0 | 12933.9 | 19566.5 | 26742.9 | 20929.9 | 13916.5 |
| 70° | 914.3 | 918.9 | 994.5 | 1261.3 | 2091.0 | 4334.1 | 9787.4 | 17457.3 | 25879.6 | 19864.3 | 12577.8 |
| 72.5° | 729.5 | 732.2 | 785.0 | 848.8 | 1198.5 | 2685.7 | 6568.0 | 14134.2 | 21999.9 | 15745.2 | 9240.0 |
| 75° | 539.1 | 551.0 | 650.2 | 686.7 | 812.4 | 1467.1 | 3532.6 | 9262.8 | 14850.9 | 8843.0 | 5024.4 |
| 77.5° | 453.5 | 456.3 | 488.1 | 566.5 | 620.2 | 832.4 | 1187.6 | 4093.6 | 6141.8 | 2612.8 | 1295.0 |
| 80° | 306.9 | 306.9 | 363.4 | 416.2 | 472.7 | 548.2 | 469.0 | 1114.7 | 1137.5 | 421.7 | 240.4 |
| 82.5° | 214.9 | 222.2 | 260.5 | 351.5 | 384.3 | 294.2 | 240.4 | 308.7 | 262.3 | 139.3 | 75.6 |
| 85° | 59.2 | 72.9 | 178.5 | 261.4 | 204.9 | 89.2 | 144.8 | 122.0 | 90.2 | 51.9 | 31.9 |
| 87.5° | 9.1 | 10.9 | 85.6 | 78.3 | 55.6 | 16.4 | 50.1 | 20.9 | 28.2 | 20.0 | 15.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: PRV-M-PA6A-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 | 3485.3 |
| 2.5° | 3395.1 | 3158.3 | 2905.2 | 2683.9 | 2495.3 | 2323.2 | 2239.4 | 2123.8 | 2121.9 | 2040.9 |
| 5° | 3318.6 | 2820.5 | 2377.9 | 2003.6 | 1704.8 | 1490.8 | 1358.8 | 1247.7 | 1195.8 | 1174.8 |
| 7.5° | 3273.1 | 2542.7 | 1937.1 | 1480.8 | 1167.5 | 987.2 | 884.3 | 842.4 | 819.6 | 808.7 |
| 10° | 3262.2 | 2300.4 | 1560.0 | 1096.5 | 868.8 | 783.2 | 748.6 | 727.7 | 719.5 | 711.3 |
| 12.5° | 3255.8 | 2061.8 | 1260.4 | 867.9 | 756.8 | 707.6 | 676.7 | 653.9 | 643.9 | 636.6 |
| 15° | 3252.1 | 1822.3 | 1013.6 | 763.2 | 691.2 | 643.0 | 605.6 | 583.8 | 570.1 | 562.8 |
| 17.5° | 3257.6 | 1607.4 | 844.2 | 704.9 | 635.7 | 576.5 | 538.2 | 510.0 | 499.1 | 489.0 |
| 20° | 3267.6 | 1388.8 | 755.0 | 652.1 | 575.6 | 510.9 | 470.8 | 440.8 | 425.3 | 419.8 |
| 22.5° | 3272.2 | 1173.9 | 694.0 | 594.7 | 512.7 | 446.2 | 404.4 | 378.9 | 365.2 | 359.7 |
| 25° | 3259.4 | 986.3 | 635.7 | 533.7 | 450.8 | 387.1 | 346.1 | 325.1 | 317.8 | 312.4 |
| 27.5° | 3229.4 | 826.9 | 577.4 | 471.7 | 394.3 | 337.0 | 303.3 | 284.1 | 278.7 | 277.8 |
| 30° | 3179.3 | 703.1 | 519.1 | 415.3 | 344.2 | 294.2 | 265.0 | 249.5 | 246.8 | 245.0 |
| 32.5° | 3132.8 | 619.3 | 465.4 | 367.0 | 302.4 | 256.8 | 231.3 | 221.3 | 219.5 | 219.5 |
| 35° | 3084.6 | 556.4 | 412.6 | 323.3 | 265.0 | 225.9 | 204.9 | 195.8 | 197.6 | 196.7 |
| 37.5° | 3048.1 | 501.8 | 371.6 | 287.8 | 232.2 | 196.7 | 178.5 | 172.1 | 175.8 | 175.8 |
| 40° | 3026.3 | 458.1 | 329.7 | 255.0 | 203.1 | 171.2 | 155.7 | 151.2 | 157.6 | 158.5 |
| 42.5° | 3025.4 | 416.2 | 296.0 | 224.9 | 176.7 | 149.4 | 135.7 | 131.1 | 138.4 | 140.2 |
| 45° | 3042.7 | 383.4 | 263.2 | 196.7 | 154.8 | 129.3 | 114.7 | 110.2 | 118.4 | 119.3 |
| 47.5° | 3113.7 | 356.1 | 234.1 | 173.0 | 135.7 | 112.0 | 94.7 | 90.2 | 99.3 | 100.2 |
| 50° | 3231.2 | 319.7 | 202.2 | 151.2 | 118.4 | 94.7 | 76.5 | 72.9 | 82.9 | 83.8 |
| 52.5° | 3342.3 | 285.1 | 173.0 | 130.2 | 102.9 | 78.3 | 61.0 | 59.2 | 69.2 | 71.0 |
| 55° | 3391.5 | 250.4 | 148.4 | 112.0 | 89.2 | 64.7 | 48.3 | 49.2 | 59.2 | 61.0 |
| 57.5° | 3417.9 | 221.3 | 128.4 | 96.5 | 77.4 | 52.8 | 41.0 | 41.9 | 51.0 | 52.8 |
| 60° | 3438.8 | 192.2 | 112.9 | 84.7 | 67.4 | 44.6 | 35.5 | 34.6 | 41.9 | 43.7 |
| 62.5° | 3427.9 | 164.8 | 99.3 | 73.8 | 57.4 | 39.2 | 30.1 | 27.3 | 31.9 | 32.8 |
| 65° | 3289.5 | 143.0 | 85.6 | 62.8 | 49.2 | 32.8 | 23.7 | 16.4 | 19.1 | 20.0 |
| 67.5° | 2901.5 | 125.7 | 72.9 | 53.7 | 40.1 | 28.2 | 17.3 | 10.9 | 12.7 | 13.7 |
| 70° | 2165.7 | 107.5 | 59.2 | 44.6 | 32.8 | 22.8 | 12.7 | 7.3 | 9.1 | 10.0 |
| 72.5° | 1170.3 | 88.3 | 47.4 | 34.6 | 24.6 | 17.3 | 8.2 | 4.6 | 5.5 | 5.5 |
| 75° | 483.6 | 63.7 | 35.5 | 23.7 | 17.3 | 12.7 | 6.4 | 1.8 | 1.8 | 1.8 |
| 77.5° | 179.4 | 39.2 | 22.8 | 18.2 | 13.7 | 10.0 | 4.6 | 0.9 | 0.0 | 0.0 |
| 80° | 82.0 | 20.9 | 17.3 | 14.6 | 10.9 | 8.2 | 3.6 | 0.0 | 0.0 | 0.0 |
| 82.5° | 38.2 | 14.6 | 13.7 | 11.8 | 9.1 | 6.4 | 2.7 | 0.0 | 0.0 | 0.0 |
| 85° | 18.2 | 11.8 | 12.7 | 10.9 | 9.1 | 5.5 | 1.8 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.9 | 12.7 | 12.7 | 10.9 | 9.1 | 5.5 | 0.9 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)